

SEQUENCE LISTING

<110> INCYTE PHARMACEUTICALS, INC.

LAL, Preeti
TANG, Y. Tom
YUE, Henry
HILLMAN, Jennifer L.
BANDMAN, Olga
CORLEY, Neil C.
GUEGLER, Karl J.
PATTERSON, Chandra
AZIMZAI, Yalda
BAUGHN, Mariah R.

<120> HUMAN CYTOSKELETON ASSOCIATED PROTEINS

<130> PF-0594 PCT

<140> To Be Assigned

<141> Herewith

<150> 09/156,470; unassigned; 60/131,321

<151> 1998-09-18; 1998-09-18; 1999-04-27

<160> 32

<170> PERL Program

<210> 1

<211> 1005

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1285395

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Ala Glu Asn Gln Gln Asn Gln Ser Ser Asp Pro Glu Glu Glu Lys
35 40 45
Gly Ser Gln Pro Pro Pro Ala Ala Glu Ser Gln Ser Ser Leu Arg
50 55 60
Arg Gln Lys Arg Glu Lys Glu Thr Ser Glu Ser Arg Gly Ile Ser
65 70 75
Arg Phe Ile Pro Pro Trp Leu Lys Lys Gln Lys Ser Tyr Thr Leu
80 85 90
Val Val Ala Lys Asp Gly Gly Asp Lys Lys Glu Pro Thr Gln Ala
95 100 105
Val Val Glu Glu Gln Val Leu Asp Lys Glu Glu Pro Leu Pro Glu

	110		115		120
Glu Gln Arg Gln	Ala Lys Gly Asp	Ala Glu Glu Met Ala Gln Lys			
	125		130		135
Lys Gln Glu Ile	Lys Val Glu Val Lys	Glu Glu Lys Pro Ser Val			
	140		145		150
Ser Lys Glu Glu	Lys Pro Ser Val Ser	Lys Val Glu Met Gln Pro			
	155		160		165
Thr Glu Leu Val	Ser Lys Glu Arg Glu	Glu Lys Val Lys Glu Thr			
	170		175		180
Gln Glu Asp Lys	Leu Glu Gly Gly Ala	Ala Lys Arg Glu Thr Lys			
	185		190		195
Glu Val Gln Thr	Asn Glu Leu Lys Ala	Glu Lys Ala Ser Gln Lys			
	200		205		210
Val Thr Lys Lys	Thr Lys Thr Val Gln	Cys Lys Val Thr Leu Leu			
	215		220		225
Asp Gly Thr Glu	Tyr Ser Cys Asp Leu	Glu Lys His Ala Lys Gly			
	230		235		240
Gln Val Leu Phe	Asp Lys Val Cys Glu	His Leu Asn Leu Leu Glu			
	245		250		255
Lys Asp Tyr Phe	Gly Leu Leu Phe Gln	Glu Ser Pro Glu Gln Lys			
	260		265		270
Asn Trp Leu Asp	Pro Ala Lys Glu Ile	Lys Arg Gln Leu Arg Asn			
	275		280		285
Leu Pro Trp Leu	Phe Thr Phe Asn Val	Lys Phe Tyr Pro Pro Asp			
	290		295		300
Pro Ser Gln Leu	Thr Glu Asp Ile Thr	Arg Tyr Phe Leu Cys Leu			
	305		310		315
Gln Leu Arg Gln	Asp Ile Ala Ser Gly	Arg Leu Pro Cys Ser Phe			
	320		325		330
Val Thr His Ala	Leu Leu Gly Ser Tyr	Thr Leu Gln Ala Glu Leu			
	335		340		345
Gly Asp Tyr Asp	Pro Glu Glu His Gly	Ser Ile Asp Leu Ser Glu			
	350		355		360
Phe Gln Phe Ala	Pro Thr Gln Thr Lys	Glu Leu Glu Glu Lys Val			
	365		370		375
Ala Glu Leu His	Lys Thr His Arg Gly	Leu Ser Pro Ala Gln Ala			
	380		385		390
Asp Ser Gln Phe	Leu Glu Asn Ala Lys	Arg Leu Ser Met Tyr Gly			
	395		400		405
Val Asp Leu His	His Ala Lys Asp Ser	Glu Gly Val Asp Ile Lys			
	410		415		420
Leu Gly Val Cys	Ala Asn Gly Leu Leu	Ile Tyr Lys Asp Arg Leu			
	425		430		435
Arg Ile Asn Arg	Phe Ala Trp Pro Lys	Ile Leu Lys Ile Ser Tyr			
	440		445		450
Lys Arg Ser Asn	Phe Tyr Ile Lys Val	Arg Pro Ala Glu Leu Glu			
	455		460		465
Gln Phe Glu Ser	Thr Ile Gly Phe Lys	Leu Pro Asn His Arg Ala			
	470		475		480
Ala Lys Arg Leu	Trp Lys Val Cys Val	Glu His His Thr Phe Tyr			
	485		490		495
Arg Leu Val Ser	Pro Glu Gln Pro Pro	Lys Ala Lys Phe Leu Thr			
	500		505		510
Leu Gly Ser Lys	Phe Arg Tyr Ser Gly	Arg Thr Gln Ala Gln Thr			

Arg Gln Ala Ser	Thr Leu Ile Asp Arg	Pro Ala Pro His Phe Glu	515	520	525
			530	535	540
Arg Thr Ser Ser	Lys Arg Val Ser Arg	Ser Leu Asp Gly Ala Pro	545	550	555
Ile Gly Val Met	Asp Gln Ser Leu Met	Lys Asp Phe Pro Gly Ala	560	565	570
Ala Gly Glu Ile	Ser Ala Tyr Gly Pro	Gly Leu Val Ser Ile Ala	575	580	585
Val Val Gln Asp	Gly Asp Gly Arg Arg	Glu Val Arg Ser Pro Thr	590	595	600
Lys Ala Pro His	Leu Gln Leu Ile Glu	Gly Lys Lys Asn Ser Leu	605	610	615
Arg Val Glu Gly	Asp Asn Ile Tyr Val	Arg His Ser Asn Leu Met	620	625	630
Leu Glu Glu Leu	Asp Lys Ala Gln Glu	Asp Ile Leu Lys His Gln	635	640	645
Ala Ser Ile Ser	Glu Leu Lys Arg Asn	Phe Met Glu Ser Thr Pro	650	655	660
Glu Pro Arg Pro	Asn Glu Trp Glu Lys	Arg Arg Ile Thr Pro Leu	665	670	675
Ser Leu Gln Thr	Gln Gly Ser Ser His	Glu Thr Leu Asn Ile Val	680	685	690
Glu Glu Lys Lys	Arg Ala Glu Val Gly	Lys Asp Glu Arg Val Ile	695	700	705
Thr Glu Glu Met	Asn Gly Lys Glu Ile	Ser Pro Gly Ser Gly Pro	710	715	720
Gly Glu Ile Arg	Lys Val Glu Pro Val	Thr Gln Lys Asp Ser Thr	725	730	735
Ser Leu Ser Ser	Glu Ser Ser Ser Ser	Ser Ser Glu Ser Glu Glu	740	745	750
Glu Asp Val Gly	Glu Tyr Arg Pro His	His Arg Val Thr Glu Gly	755	760	765
Thr Ile Arg Glu	Glu Gln Glu Tyr Glu	Glu Glu Val Glu Glu Glu	770	775	780
Pro Arg Pro Ala	Ala Lys Val Val Glu	Arg Glu Glu Ala Val Pro	785	790	795
Glu Ala Ser Pro	Val Thr Gln Ala Gly	Ala Ser Val Ile Thr Val	800	805	810
Glu Thr Val Ile	Gln Glu Asn Val Gly	Ala Gln Lys Ile Pro Gly	815	820	825
Glu Lys Ser Val	His Glu Gly Ala Leu	Lys Gln Asp Met Gly Glu	830	835	840
Glu Ala Glu Glu	Glu Pro Gln Lys Val	Asn Gly Glu Val Ser His	845	850	855
Val Asp Ile Asp	Val Leu Pro Gln Ile	Ile Cys Cys Ser Glu Pro	860	865	870
Pro Val Val Lys	Thr Glu Met Val Thr	Ile Ser Asp Ala Ser Gln	875	880	885
Arg Thr Glu Ile	Ser Thr Lys Glu Val	Pro Ile Val Gln Thr Glu	890	895	900
Thr Lys Thr Ile	Thr Tyr Glu Ser Pro	Gln Ile Asp Gly Gly Ala	905	910	915
Gly Gly Asp Ser	Gly Thr Leu Leu Thr	Ala Gln Thr Ile Thr Ser			

				920						925				930
Glu	Ser	Val	Ser	Thr	Thr	Thr	Thr	Thr	His	Ile	Thr	Lys	Thr	Val
				935						940				945
Lys	Gly	Gly	Ile	Ser	Glu	Thr	Arg	Ile	Glu	Lys	Arg	Ile	Val	Ile
				950						955				960
Thr	Gly	Asp	Gly	Asp	Ile	Asp	His	Asp	Gln	Ala	Leu	Ala	Gln	Ala
				965						970				975
Ile	Arg	Glu	Ala	Arg	Glu	Gln	His	Pro	Asp	Met	Ser	Val	Thr	Arg
				980						985				990
Val	Val	Val	His	Lys	Glu	Thr	Glu	Leu	Ala	Glu	Glu	Gly	Glu	Asp
				995					1000					1005

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<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

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Ala	Pro	Glu	Asn	Ser	Gly	Ile	Ser	Thr	Leu	Glu	Arg	Gly	Gln	Lys
				20					25					30
Pro	Pro	Pro	Thr	Pro	Ser	Gly	Lys	Leu	Val	Ser	Ile	Lys	Ile	Gln
				35					40					45
Met	Leu	Asp	Asp	Thr	Gln	Glu	Ala	Phe	Glu	Val	Pro	Gln	Arg	Ala
				50					55					60
Pro	Gly	Lys	Val	Leu	Leu	Asp	Ala	Val	Cys	Asn	His	Leu	Asn	Leu
				65					70					75
Val	Glu	Gly	Asp	Tyr	Phe	Gly	Leu	Glu	Phe	Pro	Asp	His	Lys	Lys
				80					85					90
Ile	Thr	Val	Trp	Leu	Asp	Leu	Leu	Lys	Pro	Ile	Val	Lys	Gln	Ile
				95					100					105
Arg	Arg	Pro	Lys	His	Val	Val	Val	Lys	Phe	Val	Val	Lys	Phe	Phe
				110					115					120
Pro	Pro	Asp	His	Thr	Gln	Leu	Gln	Glu	Glu	Leu	Thr	Arg	Tyr	Leu
				125					130					135
Phe	Ala	Leu	Gln	Val	Lys	Gln	Asp	Leu	Ala	Gln	Gly	Arg	Leu	Thr
				140					145					150
Cys	Asn	Asp	Thr	Ser	Ala	Ala	Leu	Leu	Ile	Ser	His	Ile	Val	Gln
				155					160					165
Ser	Glu	Ile	Gly	Asp	Phe	Asp	Glu	Ala	Leu	Asp	Arg	Glu	His	Leu
				170					175					180
Ala	Lys	Asn	Lys	Tyr	Ile	Pro	Gln	Gln	Asp	Ala	Leu	Glu	Asp	Lys
				185					190					195
Ile	Val	Glu	Phe	His	His	Asn	His	Ile	Gly	Gln	Thr	Pro	Ala	Glu
				200					205					210
Ser	Asp	Phe	Gln	Leu	Leu	Glu	Ile	Ala	Arg	Arg	Leu	Glu	Met	Tyr
				215					220					225
Gly	Ile	Arg	Leu	His	Pro	Ala	Lys	Asp	Arg	Glu	Gly	Thr	Lys	Ile

	230		235		240
Asn Leu Ala Val	Ala Asn Thr Gly Ile	Leu Val Phe Gln Gly	Phe		
	245		255		
Thr Lys Ile Asn	Ala Phe Asn Trp Ala	Lys Val Arg Lys Leu	Ser		
	260		270		
Phe Lys Arg Lys	Arg Phe Phe Ile Lys	Leu Arg Pro Asp Ala	Asn		
	275		285		
Ser Ala Tyr Gln	Asp Thr Leu Glu Phe	Leu Met Ala Ser Arg	Asp		
	290		300		
Phe Cys Lys Ser	Phe Trp Lys Ile Cys	Val Glu His His Ala	Phe		
	305		315		
Phe Arg Leu Phe	Glu Glu Pro Lys Pro	Lys Pro Lys Pro Val	Leu		
	320		330		
Phe Ser Arg Gly	Ser Ser Phe Arg Phe	Ser Gly Arg Thr Gln	Lys		
	335		345		
Gln Val Leu Asp	Tyr Val Lys Glu Gly	Gly His Lys Lys Val	Gln		
	350		360		
Phe Glu Arg Lys	His Ser Lys Ile His	Ser Ile Arg Ser Leu	Ala		
	365		375		
Ser Gln Pro Thr	Glu Leu Asn Ser Glu	Val Leu Glu Gln Ser	Gln		
	380		390		
Gln Ser Thr Ser	Leu Thr Phe Gly Glu	Gly Ala Glu Ser Pro	Gly		
	395		405		
Gly Gln Ser Cys	Arg Arg Gly Lys Glu	Pro Lys Val Ser Ala	Gly		
	410		420		
Glu Pro Gly Ser	His Pro Ser Pro Ala	Pro Arg Arg Ser Pro	Ala		
	425		435		
Gly Asn Lys Gln	Ala Asp Gly Ala Ala	Ser Ala Pro Thr Glu	Glu		
	440		450		
Glu Glu Glu Val	Val Lys Asp Arg Thr	Gln Gln Ser Lys Pro	Gln		
	455		465		
Pro Pro Gln Pro	Ser Thr Gly Ser Leu	Thr Gly Ser Pro His	Leu		
	470		480		
Ser Glu Leu Ser	Val Asn Ser Gln Gly	Gly Val Ala Pro Ala	Asn		
	485		495		
Val Thr Leu Ser	Pro Asn Leu Ser Pro	Asp Thr Lys Gln Ala	Ser		
	500		510		
Pro Leu Ile Ser	Pro Leu Leu Asn Asp	Gln Ala Cys Pro Arg	Thr		
	515		525		
Asp Asp Glu Asp	Glu Gly Arg Arg Lys	Arg Phe Pro Thr Asp	Lys		
	530		540		
Ala Tyr Phe Ile	Ala Lys Glu Val Ser	Thr Thr Glu Arg Thr	Tyr		
	545		555		
Leu Lys Asp Leu	Glu Val Ile Thr Ser	Trp Phe Gln Ser Thr	Val		
	560		570		
Ser Lys Glu Asp	Ala Met Pro Glu Ala	Leu Lys Ser Leu Ile	Phe		
	575		585		
Pro Asn Phe Glu	Pro Leu His Lys Phe	His Thr Asn Phe Leu	Lys		
	590		600		
Glu Ile Glu Gln	Arg Leu Ala Leu Trp	Glu Gly Arg Ser Asn	Ala		
	605		615		
Gln Ile Arg Asp	Tyr Gln Arg Ile Gly	Asp Val Met Leu Lys	Asn		
	620		630		
Ile Gln Gly Met	Lys His Leu Ala Ala	His Leu Trp Lys His	Ser		

	635		640		645
Glu Ala Leu Glu	Ala Leu Glu Asn Gly	Ile Lys Ser Ser Arg	Arg		
	650		655		660
Leu Glu Asn Phe	Cys Arg Asp Phe Glu	Leu Gln Lys Val Cys	Tyr		
	665		670		675
Leu Pro Leu Asn	Thr Phe Leu Leu Arg	Pro Leu His Arg Leu	Met		
	680		685		690
His Tyr Lys Gln	Val Leu Glu Arg Leu	Cys Lys His His Pro	Pro		
	695		700		705
Ser His Ala Asp	Phe Arg Asp Cys Arg	Ala Ala Leu Ala Glu	Ile		
	710		715		720
Thr Glu Met Val	Ala Gln Leu His Gly	Thr Met Ile Lys Met	Glu		
	725		730		735
Asn Phe Gln Lys	Leu His Glu Leu Lys	Lys Asp Leu Ile Gly	Ile		
	740		745		750
Asp Asn Leu Val	Val Pro Gly Arg Glu	Phe Ile Arg Leu Gly	Ser		
	755		760		765
Leu Ser Lys Leu	Ser Gly Lys Gly Leu	Gln Gln Arg Met Phe	Phe		
	770		775		780
Leu Phe Asn Asp	Val Leu Leu Tyr Thr	Ser Arg Gly Leu Thr	Ala		
	785		790		795
Ser Asn Gln Phe	Lys Val His Gly Gln	Leu Pro Leu Tyr Gly	Met		
	800		805		810
Thr Ile Glu Glu	Ser Glu Asp Glu Trp	Gly Val Pro His Cys	Leu		
	815		820		825
Thr Leu Arg Gly	Gln Arg Gln Ser Ile	Ile Val Ala Ala Ser	Ser		
	830		835		840
Arg Ser Glu Met	Glu Lys Trp Val Glu	Asp Ile Gln Met Ala	Ile		
	845		850		855
Asp Leu Ala Glu	Lys Ser Ser Ser Pro	Ala Pro Glu Phe Leu	Ala		
	860		865		870
Ser Ser Pro Pro	Asp Asn Lys Ser Pro	Asp Glu Ala Thr Ala	Ala		
	875		880		885
Asp Gln Glu Ser	Glu Asp Asp Leu Ser	Ala Ser Arg Thr Ser	Leu		
	890		895		900
Glu Arg Gln Ala	Pro His Arg Gly Asn	Thr Met Val His Val	Cys		
	905		910		915
Trp His Arg Asn	Thr Ser Val Ser Met	Val Asp Phe Ser Ile	Ala		
	920		925		930
Val Glu Asn Gln	Leu Ser Gly Asn Leu	Leu Arg Lys Phe Lys	Asn		
	935		940		945
Ser Asn Gly Trp	Gln Lys Leu Trp Val	Val Phe Thr Asn Phe	Cys		
	950		955		960
Leu Phe Phe Tyr	Lys Ser His Gln Asp	Asn His Pro Leu Ala	Ser		
	965		970		975
Leu Pro Leu Leu	Gly Tyr Ser Leu Thr	Ile Pro Ser Glu Ser	Glu		
	980		985		990
Asn Ile Gln Lys	Asp Tyr Val Phe Lys	Leu His Phe Lys Ser	His		
	995		1000		1005
Val Tyr Tyr Phe	Arg Ala Glu Ser Glu	Tyr Thr Phe Glu Arg	Trp		
	1010		1015		1020
Met Glu Val Ile	Arg Ser Ala Thr Ser	Ser Ala Ser Arg Pro	His		
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Val Leu Ser His	Lys Glu Ser Leu Val	Tyr			

1040

1045

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<220>
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 <223> Incyte ID No: 1259001

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 Lys Val Ala Asn Gln Ala Ser Leu Pro Leu Val Asp Phe Ile Ile
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 Gln Asn Gly Gly His Leu Asp Ala Lys Ala Ala Asp Gly Asn Thr
 35 40 45
 Ala Leu His Tyr Ala Ala Leu Tyr Asn Gln Pro Asp Cys Leu Lys
 50 55 60
 Leu Leu Leu Lys Gly Arg Ala Leu Val Gly Thr Val Asn Glu Ala
 65 70 75
 Gly Glu Thr Ala Leu Asp Ile Ala Arg Lys Lys His His Lys Glu
 80 85 90
 Cys Glu Glu Leu Leu Glu Gln Ala Gln Ala Gly Thr Phe Ala Phe
 95 100 105
 Pro Leu His Val Asp Tyr Ser Trp Val Ile Ser Thr Glu Pro Gly
 110 115 120
 Ser Asp Ser Glu Glu Asp Glu Glu Glu Lys Arg Cys Leu Leu Lys
 125 130 135
 Leu Pro Ala Gln Ala His Trp Ala Ser Gly Arg Leu Asp Ile Ser
 140 145 150
 Asn Lys Thr Tyr Glu Thr Val Ala Ser Leu Gly Ala Ala Thr Pro
 155 160 165
 Gln Gly Glu Ser Glu Asp Cys Pro Pro Leu Pro Val Lys Asn
 170 175 180
 Ser Ser Arg Thr Leu Val Gln Gly Cys Ala Arg His Ala Ser Gly
 185 190 195
 Asp Arg Ser Glu Val Ser Ser Leu Ser Ser Glu Ala Pro Glu Thr
 200 205 210
 Pro Glu Ser Leu Gly Ser Pro Ala Ser Ser Ser Ser Leu Met Ser
 215 220 225
 Pro Leu Glu Pro Gly Asp Pro Ser Gln Ala Pro Pro Asn Ser Glu
 230 235 240
 Glu Gly Leu Arg Glu Pro Pro Gly Thr Ser Arg Pro Ser Leu Thr
 245 250 255
 Ser Gly Thr Thr Pro Ser Glu Met Tyr Leu Pro Val Arg Phe Ser
 260 265 270
 Ser Glu Ser Thr Arg Ser Tyr Arg Arg Gly Ala Arg Ser Pro Glu
 275 280 285
 Asp Gly Pro Ser Ala Arg Gln Pro Leu Pro Arg Arg Asn Val Pro
 290 295 300
 Val Gly Ile Thr Glu Gly Asp Gly Ser Arg Thr Gly Ser Leu Pro

	305	310	315
Ala Ser Ser Val	Gln Leu Leu Gln Asp		
	320		

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 <213> Homo sapiens

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 <223> Incyte ID No: 1627027

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Met Ser Val Ser Arg Thr Met Glu Asp Ser Cys Glu Leu Asp Leu		
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Val Tyr Val Thr Glu Arg Ile Ile Ala Val Ser Phe Pro Ser Thr		
	20	25 30
Ala Asn Glu Glu Asn Phe Arg Ser Asn Leu Arg Glu Val Ala Gln		
	35	40 45
Met Leu Lys Ser Lys His Gly Gly Asn Tyr Leu Leu Phe Asn Leu		
	50	55 60
Ser Glu Arg Arg Pro Asp Ile Thr Lys Leu His Ala Lys Val Leu		
	65	70 75
Glu Phe Gly Trp Pro Asp Leu His Thr Pro Ala Leu Glu Lys Ile		
	80	85 90
Cys Ser Ile Cys Lys Ala Met Asp Thr Trp Leu Asn Ala Asp Pro		
	95	100 105
His Asn Val Val Val Leu His Asn Lys Gly Asn Arg Gly Arg Ile		
	110	115 120
Gly Val Val Ile Ala Ala Tyr Met His Tyr Ser Asn Ile Ser Ala		
	125	130 135
Ser Ala Asp Gln Ala Leu Asp Arg Phe Ala Met Lys Arg Phe Tyr		
	140	145 150
Glu Asp Lys Ile Val Pro Ile Gly Gln Pro Ser Gln Arg Arg Tyr		
	155	160 165
Val His Tyr Phe Ser Gly Leu Leu Ser Gly Ser Ile Lys Met Asn		
	170	175 180
Asn Lys Pro Leu Phe Leu His His Val Ile Met His Gly Ile Pro		
	185	190 195
Asn Phe Glu Ser Lys Gly Gly Cys Arg Pro Phe Leu Arg Ile Tyr		
	200	205 210
Gln Ala Met Gln Pro Val Tyr Thr Ser Gly Ile Tyr Asn Ile Pro		
	215	220 225
Gly Asp Ser Gln Thr Ser Val Cys Ile Thr Ile Glu Pro Gly Leu		
	230	235 240
Leu Leu Lys Gly Asp Ile Leu Leu Lys Cys Tyr His Lys Lys Phe		
	245	250 255
Arg Ser Pro Ala Arg Asp Val Ile Phe Arg Val Gln Phe His Thr		
	260	265 270
Cys Ala Ile His Asp Leu Gly Val Val Phe Gly Lys Glu Asp Leu		

	275		280		285
Asp Asp Ala Phe	Lys Asp Asp Arg Phe	Pro Glu Tyr Gly Lys	Val		
	290		295		300
Glu Phe Val Phe	Ser Tyr Gly Pro Glu	Lys Ile Gln Gly Met	Glu		
	305		310		315
His Leu Glu Asn	Gly Pro Ser Val Ser	Val Asp Tyr Asn Thr	Ser		
	320		325		330
Asp Pro Leu Ile	Arg Trp Asp Ser Tyr	Asp Asn Phe Ser Gly	His		
	335		340		345
Arg Asp Asp Gly	Met Glu Asp Gly Asn	Lys Gln Asn Thr Asn	Ser		
	350		355		360
Gln Ser Ile Gly	Ser Ile Ser Gly Gly	Leu Glu Asp Gln Tyr	Thr		
	365		370		375
Trp Pro Asp Thr	His Trp Pro Ser Gln	Ser			
	380		385		

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<211> 364

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1905315

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Lys Lys Asp Glu	Ser Phe Leu Gly Lys	Leu Gly Gly Thr Leu	Ala
	20	25	30
Arg Lys Arg Arg	Ala Arg Glu Val Ser	Asp Leu Gln Glu Glu	Gly
	35	40	45
Lys Asn Ala Ile	Asn Ser Pro Met Ser	Pro Ala Leu Ala Asp	Val
	50	55	60
His Pro Glu Asp	Thr Gln Leu Glu Glu	Asn Glu Glu Arg Thr	Met
	65	70	75
Ile Asp Pro Thr	Ser Lys Glu Asp Pro	Lys Phe Lys Glu Leu	Val
	80	85	90
Lys Val Leu Leu	Asp Trp Ile Asn Asp	Val Leu Val Glu Glu	Arg
	95	100	105
Ile Ile Val Lys	Gln Leu Glu Glu Asp	Leu Tyr Asp Gly Gln	Val
	110	115	120
Leu Gln Lys Leu	Leu Glu Lys Leu Ala	Gly Cys Lys Leu Asn	Val
	125	130	135
Ala Glu Val Thr	Gln Ser Glu Ile Gly	Gln Lys Gln Lys Leu	Gln
	140	145	150
Thr Val Leu Glu	Ala Val His Asp Leu	Leu Arg Pro Arg Gly	Trp
	155	160	165
Ala Leu Arg Trp	Ser Val Asp Ser Ile	His Gly Lys Asn Leu	Val
	170	175	180
Ala Ile Leu His	Leu Leu Val Ser Leu	Ala Met His Phe Arg	Ala
	185	190	195
Pro Ile Arg Leu	Pro Glu His Val Thr	Val Gln Val Val Val	Val

	200		205		210
Arg Lys Arg Glu Gly	Leu Leu His Ser	Ser His Ile Ser Glu	Glu		
	215		220		225
Leu Thr Thr Thr Thr	Glu Met Met Met	Gly Arg Phe Glu Arg	Asp		
	230		235		240
Ala Phe Asp Thr Leu	Phe Asp His Ala	Pro Asp Lys Leu Ser	Val		
	245		250		255
Val Lys Lys Ser Leu	Ile Thr Phe Val	Asn Lys His Leu Asn	Lys		
	260		265		270
Leu Asn Leu Glu Val	Thr Glu Leu Glu	Thr Gln Phe Ala Asp	Gly		
	275		280		285
Val Tyr Leu Val Leu	Leu Met Gly Leu	Leu Glu Asp Tyr Phe	Val		
	290		295		300
Pro Leu His His Phe	Tyr Leu Thr Pro	Glu Ser Phe Asp Gln	Lys		
	305		310		315
Val His Asn Val Ser	Phe Ala Phe Glu	Leu Met Leu Asp Gly	Gly		
	320		325		330
Leu Lys Lys Pro Lys	Ala Arg Pro Glu	Asp Val Val Asn Leu	Asp		
	335		340		345
Leu Lys Ser Thr Leu	Arg Val Leu Tyr	Asn Leu Phe Thr Lys	Tyr		
	350		355		360
Lys Asn Val Glu					

<210> 6
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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 1997789

<400> 6

Met Ser Glu Gln Ser	Ile Cys Gln Ala Arg	Ala Ser Val Met Val		
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Tyr Asp Asp Thr Ser	Lys Lys Trp Val Pro	Ile Lys Pro Gly Gln		
	20	25	30	
Gln Gly Phe Ser Arg	Ile Asn Ile Tyr His	Asn Thr Ala Ser Asn		
	35	40	45	
Thr Phe Arg Val Val	Gly Val Lys Leu Gln	Asp Gln Gln Val Val		
	50	55	60	
Ile Asn Tyr Ser Ile	Val Lys Gly Leu Lys	Tyr Asn Gln Ala Thr		
	65	70	75	
Pro Thr Phe His Gln	Trp Arg Asp Ala Arg	Gln Val Tyr Gly Leu		
	80	85	90	
Asn Phe Ala Ser Lys	Glu Glu Ala Thr Thr	Phe Ser Asn Ala Met		
	95	100	105	
Leu Phe Ala Leu Asn	Ile Met Asn Ser Gln	Glu Gly Gly Pro Ser		
	110	115	120	
Ser Gln Arg Gln Val	Gln Asn Gly Pro Ser	Pro Asp Glu Met Asp		
	125	130	135	
Ile Gln Arg Arg Gln	Val Met Glu Gln His	Gln Gln Gln Arg Gln		
	140	145	150	

Glu	Ser	Leu	Glu	Arg	Arg	Thr	Ser	Ala	Thr	Gly	Pro	Ile	Leu	Pro	155	160	165
Pro	Gly	His	Pro	Ser	Ser	Ala	Ala	Ser	Ala	Pro	Val	Ser	Cys	Ser	170	175	180
Gly	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Val	Pro	Pro	Pro	Pro	Thr	185	190	195
Gly	Ala	Thr	Pro	Pro	Pro	Pro	Pro	Pro	Leu	Pro	Ala	Gly	Gly	Ala	200	205	210
Gln	Gly	Ser	Ser	His	Asp	Glu	Ser	Ser	Met	Ser	Gly	Leu	Ala	Ala	215	220	225
Ala	Ile	Ala	Gly	Ala	Lys	Leu	Arg	Arg	Val	Gln	Arg	Pro	Glu	Asp	230	235	240
Ala	Ser	Gly	Gly	Ser	Ser	Pro	Ser	Gly	Thr	Ser	Lys	Ser	Asp	Ala	245	250	255
Asn	Arg	Ala	Ser	Ser	Gly	Gly	Gly	Gly	Gly	Gly	Leu	Met	Glu	Glu	260	265	270
Met	Asn	Lys	Leu	Leu	Ala	Lys	Arg	Arg	Lys	Ala	Ala	Ser	Gln	Ser	275	280	285
Asp	Lys	Pro	Ala	Glu	Lys	Lys	Glu	Asp	Glu	Ser	Gln	Met	Glu	Asp	290	295	300
Pro	Ser	Thr	Ser	Pro	Ser	Pro	Gly	Thr	Arg	Ala	Ala	Ser	Gln	Pro	305	310	315
Pro	Asn	Ser	Ser	Glu	Ala	Gly	Arg	Lys	Pro	Trp	Glu	Arg	Ser	Asn	320	325	330
Ser	Val	Glu	Lys	Pro	Val	Ser	Ser	Ile	Leu	Ser	Arg	Met	Lys	Pro	335	340	345
Ala	Gly	Ser	Val	Asn	Asp	Met	Ala	Leu	Asp	Ala	Phe	Asp	Leu	Asp	350	355	360
Arg	Met	Lys	Gln	Glu	Ile	Leu	Glu	Glu	Val	Val	Arg	Glu	Leu	His	365	370	375
Lys	Val	Lys	Glu	Glu	Ile	Ile	Asp	Ala	Ile	Arg	Gln	Glu	Leu	Ser	380	385	390
Gly	Ile	Ser	Thr	Thr	395												

<210> 7

<211> 523

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2303465

<400> 7

Met	Ala	Ala	Val	Gly	Arg	Val	Gly	Ser	Phe	Gly	Ser	Ser	Pro	Pro	1	5	10	15
Gly	Leu	Ser	Ser	Thr	Tyr	Thr	Gly	Gly	Pro	Leu	Gly	Asn	Glu	Ile	20	25		30
Ala	Ser	Gly	Asn	Gly	Gly	Ala	Ala	Ala	Gly	Asp	Asp	Glu	Asp	Gly	35	40		45
Gln	Asn	Leu	Trp	Ser	Cys	Ile	Leu	Ser	Glu	Val	Ser	Thr	Arg	Ser	50	55		60

Arg	Ser	Lys	Leu	Pro	Ala	Gly	Lys	Asn	Val	Leu	Leu	Leu	Gly	Glu	65	70	75
Asp	Gly	Ala	Gly	Lys	Thr	Ser	Leu	Ile	Arg	Lys	Ile	Gln	Gly	Ile	80	85	90
Glu	Glu	Tyr	Lys	Lys	Gly	Arg	Gly	Leu	Glu	Tyr	Leu	Tyr	Leu	Asn	95	100	105
Val	His	Asp	Glu	Asp	Arg	Asp	Asp	Gln	Thr	Arg	Cys	Asn	Val	Trp	110	115	120
Ile	Leu	Asp	Gly	Asp	Leu	Tyr	His	Lys	Gly	Leu	Leu	Lys	Phe	Ser	125	130	135
Leu	Asp	Ala	Val	Ser	Leu	Lys	Asp	Thr	Leu	Val	Met	Leu	Val	Val	140	145	150
Asp	Met	Ser	Lys	Pro	Trp	Thr	Ala	Leu	Asp	Ser	Leu	Gln	Lys	Trp	155	160	165
Ala	Ser	Val	Val	Arg	Glu	His	Val	Asp	Lys	Leu	Lys	Ile	Pro	Pro	170	175	180
Glu	Glu	Met	Lys	Gln	Met	Glu	Gln	Lys	Leu	Ile	Arg	Asp	Phe	Gln	185	190	195
Glu	Tyr	Val	Glu	Pro	Gly	Glu	Asp	Phe	Pro	Ala	Ser	Pro	Gln	Arg	200	205	210
Arg	Asn	Thr	Ala	Ser	Gln	Glu	Asp	Lys	Asp	Asp	Ser	Val	Val	Leu	215	220	225
Pro	Leu	Gly	Ala	Asp	Thr	Leu	Thr	His	Asn	Leu	Gly	Ile	Pro	Val	230	235	240
Leu	Val	Val	Cys	Thr	Lys	Cys	Asp	Ala	Ile	Ser	Val	Leu	Glu	Lys	245	250	255
Glu	His	Asp	Tyr	Arg	Asp	Glu	His	Phe	Asp	Phe	Ile	Gln	Ser	His	260	265	270
Ile	Arg	Lys	Phe	Cys	Leu	Gln	Tyr	Gly	Ala	Ala	Leu	Ile	Tyr	Thr	275	280	285
Ser	Val	Lys	Glu	Asn	Lys	Asn	Ile	Asp	Leu	Val	Tyr	Lys	Tyr	Ile	290	295	300
Val	Gln	Lys	Leu	Tyr	Gly	Phe	Pro	Tyr	Lys	Ile	Pro	Ala	Val	Val	305	310	315
Val	Glu	Lys	Asp	Ala	Val	Phe	Ile	Pro	Ala	Gly	Trp	Asp	Asn	Asp	320	325	330
Lys	Lys	Ile	Gly	Ile	Leu	His	Glu	Asn	Phe	Gln	Thr	Leu	Lys	Ala	335	340	345
Glu	Asp	Asn	Phe	Glu	Asp	Ile	Ile	Thr	Lys	Pro	Pro	Val	Arg	Lys	350	355	360
Phe	Val	His	Glu	Lys	Glu	Ile	Met	Ala	Glu	Asp	Asp	Gln	Val	Phe	365	370	375
Leu	Met	Lys	Leu	Gln	Ser	Leu	Leu	Ala	Lys	Gln	Pro	Pro	Thr	Ala	380	385	390
Ala	Gly	Arg	Pro	Val	Asp	Ala	Ser	Pro	Arg	Val	Pro	Gly	Gly	Ser	395	400	405
Pro	Arg	Thr	Pro	Asn	Arg	Ser	Val	Ser	Ser	Asn	Val	Ala	Ser	Val	410	415	420
Ser	Pro	Ile	Pro	Ala	Gly	Ser	Lys	Lys	Ile	Asp	Pro	Asn	Met	Lys	425	430	435
Ala	Gly	Ala	Thr	Ser	Glu	Gly	Val	Leu	Ala	Asn	Phe	Phe	Asn	Ser	440	445	450
Leu	Leu	Ser	Lys	Lys	Thr	Gly	Ser	Pro	Gly	Gly	Pro	Gly	Val	Ser	455	460	465

Gly	Gly	Ser	Pro	Ala	Gly	Gly	Ala	Gly	Gly	Gly	Ser	Ser	Gly	Leu
				470					475					480
Pro	Pro	Ser	Thr	Lys	Lys	Ser	Gly	Gln	Lys	Pro	Val	Leu	Asp	Val
				485					490					495
His	Ala	Glu	Leu	Asp	Arg	Ile	Thr	Arg	Lys	Pro	Val	Thr	Val	Ser
				500					505					510
Pro	Thr	Thr	Pro	Thr	Ser	Pro	Thr	Glu	Gly	Glu	Ala	Ser		
				515					520					

<210> 8
 <211> 348
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2363178

<400> 8

Met	Ala	Lys	Leu	Leu	Gln	Pro	Pro	Pro	Lys	Phe	Leu	Pro	Ser	Glu
1				5					10					15
Trp	His	Ile	Ala	Asn	Lys	Asn	Gln	Tyr	His	Arg	Ala	Asp	Ala	Gln
				20					25					30
Arg	Ser	Arg	Ser	Glu	Arg	Leu	Val	Ala	Glu	Ser	Gln	Arg	Leu	Val
				35					40					45
Asp	Glu	Ile	Glu	Lys	Thr	Thr	Arg	Lys	Ser	Gln	Ser	Asp	Val	Asn
				50					55					60
Lys	Lys	Leu	Glu	Gln	Arg	Leu	Glu	Glu	Val	Gln	Phe	Trp	Lys	Lys
				65					70					75
Glu	Leu	Asp	Asp	Lys	Leu	Glu	Gln	Leu	Val	Asn	Val	Thr	Asp	Asp
				80					85					90
Leu	Leu	Ile	Tyr	Lys	Ile	Arg	Leu	Glu	Lys	Ala	Leu	Glu	Thr	Leu
				95					100					105
Lys	Glu	Pro	Leu	His	Ile	Thr	Glu	Thr	Cys	Leu	Ala	Tyr	Arg	Glu
				110					115					120
Lys	Arg	Ile	Gly	Ile	Asp	Leu	Val	His	Asp	Thr	Val	Glu	His	Glu
				125					130					135
Leu	Ile	Lys	Glu	Ala	Glu	Ile	Ile	Gln	Gly	Ile	Met	Ala	Leu	Leu
				140					145					150
Thr	Arg	Thr	Leu	Glu	Glu	Ala	Ser	Glu	Gln	Ile	Arg	Met	Asn	Arg
				155					160					165
Ser	Ala	Lys	Tyr	Asn	Leu	Glu	Lys	Asp	Leu	Lys	Asp	Lys	Phe	Val
				170					175					180
Ala	Leu	Thr	Ile	Asp	Asp	Ile	Cys	Phe	Ser	Leu	Asn	Asn	Asn	Ser
				185					190					195
Pro	Asn	Ile	Arg	Tyr	Ser	Glu	Asn	Ala	Val	Arg	Ile	Glu	Pro	Asn
				200					205					210
Ser	Val	Ser	Leu	Glu	Asp	Trp	Leu	Asp	Phe	Ser	Ser	Thr	Asn	Val
				215					220					225
Glu	Lys	Ala	Asp	Lys	Gln	Arg	Asn	Asn	Ser	Leu	Met	Leu	Lys	Ala
				230					235					240

Leu	Val	Asp	Arg	Ile	Leu	Ser	Gln	Thr	Ala	Asn	Asp	Leu	Arg	Lys
				245					250					255
Gln	Cys	Asp	Val	Val	Asp	Thr	Ala	Phe	Lys	Asn	Gly	Leu	Lys	Asp
				260					265					270
Thr	Lys	Asp	Ala	Arg	Asp	Lys	Leu	Ala	Asp	His	Leu	Ala	Lys	Ile
				275					280					285
Glu	Gly	Asn	Phe	Ser	Pro	Ser	Ser	Gly	Arg	Ala	Glu	Arg	Ala	Ala
				290					295					300
Ser	Gln	Thr	Ala	Cys	Pro	Ala	Gly	Gly	Asp	Pro	Gly	Gln	Arg	Glu
				305					310					315
His	His	Leu	Tyr	Arg	Arg	Ser	Ala	Val	Tyr	Ala	Asp	Glu	Glu	Ile
				320					325					330
His	Pro	Thr	Ser	Gly	Trp	Gly	Arg	Pro	Trp	Gly	Leu	Gly	Trp	Gly
				335					340					345
Pro	Pro	Pro												

<210> 9

<211> 731

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2363327

<400> 9

Met	Gln	Val	Glu	Leu	Pro	Pro	Leu	Glu	Ile	Asn	Ser	Arg	Val	Ser
1				5					10					15
Leu	Lys	Val	Gly	Glu	Thr	Ile	Glu	Ser	Gly	Thr	Val	Ile	Phe	Cys
				20					25					30
Asp	Val	Leu	Pro	Gly	Lys	Glu	Ser	Leu	Gly	Tyr	Phe	Val	Gly	Val
				35					40					45
Asp	Met	Asp	Asn	Pro	Ile	Gly	Asn	Trp	Asp	Gly	Arg	Phe	Asp	Gly
				50					55					60
Val	Gln	Leu	Cys	Ser	Phe	Ala	Cys	Val	Glu	Ser	Thr	Ile	Leu	Leu
				65					70					75
His	Ile	Asn	Asp	Ile	Ile	Pro	Glu	Ser	Val	Thr	Gln	Glu	Arg	Arg
				80					85					90
Pro	Pro	Lys	Leu	Ala	Phe	Met	Ser	Arg	Gly	Val	Gly	Asp	Lys	Gly
				95					100					105
Ser	Ser	Ser	His	Asn	Lys	Pro	Lys	Ala	Thr	Gly	Ser	Thr	Ser	Asp
				110					115					120
Pro	Gly	Asn	Arg	Asn	Arg	Ser	Glu	Leu	Phe	Tyr	Thr	Leu	Asn	Gly
				125					130					135
Ser	Ser	Val	Asp	Ser	Gln	Pro	Gln	Ser	Lys	Ser	Lys	Asn	Thr	Trp
				140					145					150
Tyr	Ile	Asp	Glu	Val	Ala	Glu	Asp	Pro	Ala	Lys	Ser	Leu	Thr	Glu
				155					160					165
Ile	Ser	Thr	Asp	Phe	Asp	Arg	Ser	Ser	Pro	Pro	Leu	Gln	Pro	Pro
				170					175					180
Pro	Val	Asn	Ser	Leu	Thr	Thr	Glu	Asn	Arg	Phe	His	Ser	Leu	Pro
				185					190					195
Phe	Ser	Leu	Thr	Lys	Met	Pro	Asn	Thr	Asn	Gly	Ser	Ile	Gly	His

	200		205		210
Ser Pro Leu Ser	Leu Ser Ala Gln Ser	Val Met Glu Glu Leu Asn			
	215		220		225
Thr Ala Pro Val	Gln Glu Ser Pro Pro	Leu Ala Met Pro Pro Gly			
	230		235		240
Asn Ser His Gly	Leu Glu Val Gly Ser	Leu Ala Glu Val Lys Glu			
	245		250		255
Asn Pro Pro Phe	Tyr Gly Val Ile Arg	Trp Ile Gly Gln Pro Pro			
	260		265		270
Gly Leu Asn Glu	Val Leu Ala Gly Leu	Glu Leu Glu Asp Glu Cys			
	275		280		285
Ala Gly Cys Thr	Asp Gly Thr Phe Arg	Gly Thr Arg Tyr Phe Thr			
	290		295		300
Cys Ala Leu Lys	Lys Ala Leu Phe Val	Lys Leu Lys Ser Cys Arg			
	305		310		315
Pro Asp Ser Arg	Phe Ala Ser Leu Gln	Pro Val Ser Asn Gln Ile			
	320		325		330
Glu Arg Cys Asn	Ser Leu Ala Phe Gly	Gly Tyr Leu Ser Glu Val			
	335		340		345
Val Glu Glu Asn	Thr Pro Pro Lys Met	Glu Lys Glu Gly Leu Glu			
	350		355		360
Ile Met Ile Gly	Lys Lys Lys Gly Ile	Gln Gly His Tyr Asn Ser			
	365		370		375
Cys Tyr Leu Asp	Ser Thr Leu Phe Cys	Leu Phe Ala Phe Ser Ser			
	380		385		390
Val Leu Asp Thr	Val Leu Leu Arg Pro	Lys Glu Lys Asn Asp Val			
	395		400		405
Glu Tyr Tyr Ser	Glu Thr Gln Glu Leu	Leu Arg Thr Glu Ile Val			
	410		415		420
Asn Pro Leu Arg	Ile Tyr Gly Tyr Val	Cys Ala Thr Lys Ile Met			
	425		430		435
Lys Leu Arg Lys	Ile Leu Glu Lys Val	Glu Ala Ala Ser Gly Phe			
	440		445		450
Thr Ser Glu Glu	Lys Asp Pro Glu Glu	Phe Leu Asn Ile Leu Phe			
	455		460		465
His His Ile Leu	Arg Val Glu Pro Leu	Leu Lys Ile Arg Ser Ala			
	470		475		480
Gly Gln Lys Val	Gln Asp Cys Tyr Phe	Tyr Gln Ile Phe Met Glu			
	485		490		495
Lys Asn Glu Lys	Val Gly Val Pro Thr	Ile Gln Gln Leu Leu Glu			
	500		505		510
Trp Ser Phe Ile	Asn Ser Asn Leu Lys	Phe Ala Glu Ala Pro Ser			
	515		520		525
Cys Leu Ile Ile	Gln Met Pro Arg Phe	Gly Lys Asp Phe Lys Leu			
	530		535		540
Phe Lys Lys Ile	Phe Pro Ser Leu Glu	Leu Asn Ile Thr Asp Leu			
	545		550		555
Leu Glu Asp Thr	Pro Arg Gln Cys Arg	Ile Cys Gly Gly Leu Ala			
	560		565		570
Met Tyr Glu Cys	Arg Glu Cys Tyr Asp	Asp Pro Asp Ile Ser Ala			
	575		580		585
Gly Lys Ile Lys	Gln Phe Cys Lys Thr	Cys Asn Thr Gln Val His			
	590		595		600
Leu His Pro Lys	Arg Leu Asn His Lys	Tyr Asn Pro Val Ser Leu			

Pro Lys Asp Leu	605	Pro Asp Trp Asp Trp	610	Arg His Gly Cys Ile	615
	620		625		630
Cys Gln Asn Met	635	Glu Leu Phe Ala Val	640	Leu Cys Ile Glu Thr	645
	650		655		660
His Tyr Val Ala	665	Phe Val Lys Tyr Gly	670	Lys Asp Asp Ser Ala	675
	680		685		690
Leu Phe Phe Asp	695	Ser Met Ala Asp Arg	700	Asp Gly Gly Gln Asn	705
	710		715		720
Phe Asn Ile Pro	725	Gln Val Thr Pro Cys	730	Pro Glu Val Gly Glu	
Leu Lys Met Ser		Leu Glu Asp Leu His		Ser Leu Asp Ser Arg	
Ile Gln Gly Cys		Ala Arg Arg Leu Leu		Cys Asp Ala Tyr Met	
Met Tyr Gln Ser		Pro Thr Met Ser Leu		Tyr Lys	

<210> 10

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2508327

<400> 10

Met Pro Pro Pro	Gln Lys Ile Pro Ser	Val Arg Pro Phe Lys	Gln
1	5	10	15
Arg Lys Ser Leu	Ala Ile Arg Gln Glu	Glu Val Ala Gly Ile	Arg
	20	25	30
Ala Lys Phe Pro	Asn Lys Ile Pro Val	Val Val Glu Arg Tyr	Pro
	35	40	45
Arg Glu Thr Phe	Leu Pro Pro Leu Asp	Lys Thr Lys Phe Leu	Val
	50	55	60
Pro Gln Glu Leu	Thr Met Thr Gln Phe	Leu Ser Ile Ile Arg	Ser
	65	70	75
Arg Met Val Leu	Arg Ala Thr Glu Ala	Phe Tyr Leu Leu Val	Asn
	80	85	90
Asn Lys Ser Leu	Val Ser Met Ser Ala	Thr Met Ala Glu Ile	Tyr
	95	100	105
Arg Asp Tyr Lys	Asp Glu Asp Gly Phe	Val Tyr Met Thr Tyr	Ala
	110	115	120
Ser Gln Glu Thr	Phe Gly Cys Leu Glu	Ser Ala Ala Pro Arg	Asp
	125	130	135
Gly Ser Ser Leu	Glu Asp Arg Pro Cys	Asn Pro Leu	
	140	145	

<210> 11

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2524555

<400> 11

Met	Pro	Asn	Cys	Arg	Glu	Ser	Ser	Phe	Ser	Ser	Ala	Thr	Met	Ser
1				5				10						15
Asp	Lys	Pro	Asp	Met	Ala	Glu	Ile	Glu	Lys	Phe	Asp	Lys	Ser	Lys
				20				25						30
Leu	Lys	Lys	Thr	Glu	Thr	Gln	Glu	Lys	Asn	Pro	Leu	Pro	Ser	Lys
				35				40						45
Glu	Thr	Ile	Glu	Gln	Glu	Lys	Gln	Ala	Gly	Glu	Ser			
				50				55						

<210> 12

<211> 452

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2900717

<400> 12

Met	Glu	Val	Thr	Thr	Arg	Leu	Thr	Trp	Asn	Asp	Glu	Asn	His	Leu
1				5				10						15
Arg	Lys	Leu	Leu	Gly	Asn	Val	Ser	Leu	Ser	Leu	Leu	Tyr	Lys	Ser
				20				25						30
Ser	Val	His	Gly	Gly	Ser	Ile	Glu	Asp	Met	Val	Glu	Arg	Cys	Ser
				35				40						45
Arg	Gln	Gly	Cys	Thr	Ile	Thr	Met	Ala	Tyr	Ile	Asp	Tyr	Asn	Met
				50				55						60
Ile	Val	Ala	Phe	Met	Leu	Gly	Asn	Tyr	Ile	Asn	Leu	Arg	Glu	Ser
				65				70						75
Ser	Thr	Glu	Pro	Asn	Asp	Ser	Leu	Trp	Phe	Ser	Leu	Gln	Lys	Lys
				80				85						90
Asn	Asp	Thr	Thr	Glu	Ile	Glu	Thr	Leu	Leu	Leu	Asn	Thr	Ala	Pro
				95				100						105
Lys	Ile	Ile	Asp	Glu	Gln	Leu	Val	Cys	Arg	Leu	Ser	Lys	Thr	Asp
				110				115						120
Ile	Phe	Ile	Ile	Cys	Arg	Asp	Asn	Lys	Ile	Tyr	Leu	Asp	Lys	Met
				125				130						135
Ile	Thr	Arg	Asn	Leu	Lys	Leu	Arg	Phe	Tyr	Gly	His	Arg	Gln	Tyr
				140				145						150
Leu	Glu	Cys	Glu	Val	Phe	Arg	Val	Glu	Gly	Ile	Lys	Asp	Asn	Leu
				155				160						165
Asp	Asp	Ile	Lys	Arg	Ile	Ile	Lys	Ala	Arg	Glu	His	Arg	Asn	Arg
				170				175						180
Leu	Leu	Ala	Asp	Ile	Arg	Asp	Tyr	Arg	Pro	Tyr	Ala	Asp	Leu	Val
				185				190						195
Ser	Glu	Ile	Arg	Ile	Leu	Leu	Val	Gly	Pro	Val	Gly	Ser	Gly	Lys

	200		205		210
Ser Ser Phe Phe Asn Ser Val Lys Ser Ile Phe His Gly His Val					
	215		220		225
Thr Gly Gln Ala Val Val Gly Ser Asp Thr Thr Ser Ile Thr Glu					
	230		235		240
Arg Tyr Arg Ile Tyr Ser Val Lys Asp Gly Lys Asn Gly Lys Ser					
	245		250		255
Leu Pro Phe Met Leu Cys Asp Thr Met Gly Leu Asp Gly Ala Glu					
	260		265		270
Gly Ala Gly Leu Cys Met Asp Asp Ile Pro His Ile Leu Lys Gly					
	275		280		285
Cys Met Pro Asp Arg Tyr Gln Phe Asn Ser Arg Lys Pro Ile Thr					
	290		295		300
Pro Glu His Ser Thr Phe Ile Thr Ser Pro Ser Leu Lys Asp Arg					
	305		310		315
Ile His Cys Val Ala Tyr Val Leu Asp Ile Asn Ser Ile Asp Asn					
	320		325		330
Leu Tyr Ser Lys Met Leu Ala Lys Val Lys Gln Val His Lys Glu					
	335		340		345
Val Leu Asn Cys Gly Ile Ala Tyr Val Ala Leu Leu Thr Lys Val					
	350		355		360
Asp Asp Cys Ser Glu Val Leu Gln Asp Asn Phe Leu Asn Met Ser					
	365		370		375
Arg Ser Met Thr Ser Gln Ser Arg Val Met Asn Val His Lys Met					
	380		385		390
Leu Gly Ile Pro Ile Ser Asn Ile Leu Met Val Gly Asn Tyr Ala					
	395		400		405
Ser Asp Leu Glu Leu Asp Pro Met Lys Asp Ile Leu Ile Leu Ser					
	410		415		420
Ala Leu Arg Gln Met Leu Arg Ala Ala Asp Asp Phe Leu Glu Asp					
	425		430		435
Leu Pro Leu Glu Glu Thr Gly Ala Ile Glu Arg Ala Leu Gln Pro					
	440		445		450
Cys Ile					

<210> 13

<211> 281

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3088904

<400> 13

Met Asp Ala Ile Lys Lys Lys Met Gln Met Leu Lys Glu Asn Ala		
1	5	10
Ile Asp Arg Ala Glu Gln Ala Glu Ala Asp Lys Lys Gln Ala Glu		
	20	25
Asp Arg Cys Lys Gln Leu Glu Glu Glu Gln Gln Ala Leu Gln Lys		
	35	40
Lys Leu Lys Gly Thr Glu Asp Glu Val Glu Lys Tyr Ser Glu Ser		
	50	55
		60

Val	Lys	Glu	Ala	Gln	Glu	Lys	Leu	Glu	Gln	Ala	Glu	Lys	Lys	Ala	65	70	75
Thr	Asp	Ala	Glu	Ala	Asp	Val	Ala	Ser	Leu	Asn	Arg	Arg	Ile	Gln	80	85	90
Leu	Val	Glu	Glu	Glu	Leu	Asp	Arg	Ala	Gln	Glu	Arg	Leu	Ala	Thr	95	100	105
Ala	Leu	Gln	Lys	Leu	Glu	Glu	Ala	Glu	Lys	Ala	Ala	Asp	Glu	Ser	110	115	120
Glu	Arg	Gly	Met	Lys	Val	Ile	Glu	Asn	Arg	Ala	Met	Lys	Asp	Glu	125	130	135
Glu	Lys	Met	Glu	Leu	Gln	Glu	Met	Gln	Leu	Lys	Glu	Ala	Lys	His	140	145	150
Ile	Ala	Glu	Asp	Ser	Asp	Arg	Lys	Tyr	Glu	Glu	Val	Ala	Arg	Lys	155	160	165
Leu	Val	Ile	Leu	Glu	Gly	Glu	Leu	Glu	Arg	Ser	Glu	Glu	Arg	Ala	170	175	180
Glu	Val	Ala	Glu	Ser	Arg	Ala	Arg	Gln	Leu	Glu	Glu	Glu	Leu	Arg	185	190	195
Thr	Met	Asp	Gln	Ala	Leu	Lys	Ser	Leu	Met	Ala	Ser	Glu	Glu	Glu	200	205	210
Tyr	Ser	Thr	Lys	Glu	Asp	Lys	Tyr	Glu	Glu	Glu	Ile	Lys	Leu	Leu	215	220	225
Glu	Glu	Lys	Leu	Lys	Glu	Ala	Glu	Thr	Arg	Ala	Glu	Phe	Ala	Glu	230	235	240
Arg	Ser	Val	Ala	Lys	Leu	Glu	Lys	Thr	Ile	Asp	Asp	Leu	Glu	Glu	245	250	255
Thr	Leu	Ala	Ser	Ala	Lys	Glu	Glu	Asn	Val	Glu	Ile	His	Gln	Thr	260	265	270
Leu	Asp	Gln	Thr	Leu	Leu	Glu	Leu	Asn	Asn	Leu					275	280	

<210> 14

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3745193

<400> 14

Met	Asp	Glu	Gln	Ile	Arg	Leu	Met	Asp	Gln	Asn	Leu	Lys	Cys	Leu	1	5	10	15
Ser	Ala	Ala	Glu	Glu	Lys	Tyr	Ser	Gln	Lys	Glu	Asp	Lys	Cys	Glu	20	25	30	
Glu	Glu	Met	Lys	Ile	Leu	Thr	Asp	Asn	Leu	Lys	Glu	Ala	Glu	Thr	35	40	45	
His	Ala	Glu	Leu	Ala	Glu	Arg	Ser	Val	Ala	Lys	Leu	Glu	Lys	Thr	50	55	60	
Ile	Asp	Asp	Leu	Glu	Asp	Lys	Leu	Lys	Cys	Thr	Lys	Glu	Glu	His	65	70	75	
Leu	Cys	Thr	Gln	Arg	Met	Leu	Asp	Gln	Thr	Leu	Leu	Asp	Leu	Asn	80	85	90	

Glu Met

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 <211> 448
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 3822123

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 35 40 45
 Asp Asp Ser Phe Thr Thr Phe Phe Ser Glu Thr Gly Asn Gly Lys
 50 55 60
 His Val Pro Arg Ala Val Met Ile Asp Leu Glu Pro Thr Val Val
 65 70 75
 Asp Glu Val Arg Ala Gly Thr Tyr Arg Gln Leu Phe His Pro Glu
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 Gln Leu Ile Thr Gly Lys Glu Asp Ala Ala Asn Asn Tyr Ala Arg
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 Gly His Tyr Thr Val Gly Lys Glu Ser Ile Asp Leu Val Leu Asp
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 Arg Ile Arg Lys Leu Thr Asp Ala Cys Ser Gly Leu Gln Gly Phe
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 Ser Leu Leu Met Glu Arg Leu Ser Leu Asp Tyr Gly Lys Lys Ser
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 Val Val Glu Pro Tyr Asn Ser Tyr Leu Thr Thr His Thr Thr Leu
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 Glu His Ser Asp Cys Ala Phe Met Val Asp Asn Glu Ala Ile Tyr
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 Ser Leu Arg Phe Asp Gly Ala Leu Asn Val Asp Leu Thr Glu Phe
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 Gln Thr Asn Leu Val Pro Tyr Pro Arg Ile His Phe Pro Leu Ala
 260 265 270
 Thr Tyr Ala Pro Val Ile Ser Ala Glu Lys Ala Tyr His Glu Gln
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 Leu Ser Val Ala Glu Ile Thr Asn Ala Cys Phe Glu Pro Ala Asn
 290 295 300
 Gln Met Val Lys Cys Asp Pro Arg His Gly Lys Tyr Met Ala Cys

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Cys Leu Leu Tyr	Arg Gly Asp Val Val	Pro Lys Asp Val Asn Ala			
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Ala Ile Ala Ala	Ile Lys Thr Lys Arg	Ser Ile Gln Phe Val Asp			
	335		340		345
Trp Cys Pro Thr	Gly Phe Lys Val Gly	Ile Asn Tyr Gln Pro Pro			
	350		355		360
Thr Val Val Pro	Gly Gly Asp Leu Ala	Lys Val Gln Arg Ala Val			
	365		370		375
Cys Met Leu Ser	Asn Thr Thr Ala Ile	Ala Glu Ala Trp Ala Arg			
	380		385		390
Leu Asp His Lys	Phe Asp Leu Met Tyr	Ala Lys Arg Ala Phe Val			
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His Trp Tyr Val	Gly Glu Gly Met Glu	Glu Gly Glu Phe Ser Glu			
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Ala Arg Glu Asp	Met Ala Ala Leu Glu	Lys Asp Tyr Glu Glu Val			
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Gly Ile Asp Ser	Tyr Glu Asp Glu Asp	Glu Gly Glu Glu			
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<210> 16

<211> 269

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4217506

<400> 16

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	35	40 45
Glu Glu Glu Lys Pro	Arg Pro Lys Leu	Thr Ala Pro Lys Ile Pro
	50	55 60
Glu Gly Glu Lys Val	Asp Phe Asp Asp	Ile Gln Lys Lys Arg Gln
	65	70 75
Asn Lys Asp Leu Met	Glu Leu Gln Ala	Leu Ile Asp Ser His Phe
	80	85 90
Glu Ala Arg Lys Lys	Glu Glu Glu Glu	Leu Val Ala Leu Lys Glu
	95	100 105
Arg Ile Glu Lys Arg	Arg Ala Glu Arg	Ala Glu Gln Gln Arg Ile
	110	115 120
Arg Ala Glu Lys Glu	Arg Glu Arg Gln	Asn Arg Leu Ala Glu Glu
	125	130 135
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<213> Homo sapiens

<223> Incyte ID No: 1285395

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<213> Homo sapiens

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<223> Incyte ID No: 1320252

<400> 18

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<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1259001

<400> 19

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<210> 20

<211> 1918

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 1997789

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<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 2303465

<400> 23

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<210> 24

<211> 1162

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2363178

<400> 24

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<211> 4527

<212> DNA

<213> Homo sapiens

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<223> Incyte ID No: 2363327

<400> 25

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<220>
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 <223> Incyte ID No: 2508327

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<210> 27

<211> 729

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2524555

<400> 27

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<210> 28

<211> 2062

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2900717

<400> 28

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<220>
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<210> 30

<211> 1120

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3745193

<400> 30

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<210> 31

<211> 1471

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 3822123

<400> 31

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<211> 1079

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4217506

<400> 32

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